

L 7678-66 EPA/EWT(m)/EWP(f)/FCC/EWP(j)/FCS(f)/EWP(n)/EWA(c)/ETC(m) RPL
 WW/JWD/RM
 ACC NR: AP5026023 SOURCE CODE: UR/0405/65/000/001/0025/0030

AUTHOR: Belyayev, A. F. ^{44,55} (Moscow); Kondrashkov, Yu. A. ^{44,56} (Moscow); Lukashenya, G. V. ^{44,55} (Moscow); Parfenov, A. K. ^{44,55} (Moscow); Tsygankov, S. A. ^{44,55} (Moscow)

ORG: none

TITLE: Flame combustion of model mixtures of oxidizer with fuel

SOURCE: Nauchno-tekhicheskiye problemy gorennya i vzryva, no. 1, 1965, 25-30

TOPIC TAGS: propellant solid propellant ¹¹² combustion, composite propellant, burning velocity ^{23,44,55}

ABSTRACT: The relationship between the burning velocity (u) and pressure (p) of composite propellants has been studied at subatonic pressure. Ammonium perchlorate-trotyl, potassium perchlorate-trotyl, ammonium perchlorate-asphalt, ammonium perchlorate-paraformaldehyde, and ammonium perchlorate-polystyrene were ground to 20 to 40 μ and intensively mixed and compacted to 98% of the maximum density. Although the propellants had different fuels, oxidizers, and polymer binders, the u-vs-p relationships were linear. Therefore, it appears that systems which contain sufficiently fine components and a fuel which can be

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gasified by decomposition, pyrolysis, or evaporation, give linear u -vs- p relationships at subatmospheric pressure. The experimental results together with an evaluation of burning velocities at higher pressures, obtained previously, indicate that the following four regions exist: 1) a low-pressure region characterized by a plane flame front up to about 2 atm ($D = 1$); 2) the region of transition from a plane to a multiflame front with a nonlinear u -vs- p relationship ($D < 1$) at 2.5--3 to 100--250 atm; 3) a high-pressure region characterized by a multiflame front but with a linear u -vs- p relationship from 100--200 to 1000--1500 atm; and 4) a region above 1500 atm ($D < 0.3$ --0.4). Multiflame fronts consist of flames which propagate along the fuel-oxidizer boundaries into the propellant. Orig. art. has: 6 figures. [PV]

SUB CODE: FP/ SUBM DATE: 02Nov64/ ORIG REF: 009/ OTH REF: 002/ ATD PRESS: 4/41

Card 2/2

TSYGANKOV, S. K., entomolog (Kursk)

Need of a station for protecting ornamental plantations.
Zashch. rast. ot vred. i bol. 5 no.11:12-13 N '60.
(MIRA 16:1)

(Kursk--Plants, Protection of)

TSYGANKOV, -S. K.

Bee-Culture

Erecting honeycombs close to the pollinated culture Pchelovodstvo 29, no. 5, May 1952

9. Monthly List of Russian Accessions, Library of Congress, August 1953², Uncl.

1. TSYGANKOV, S.K.
2. USSR (600)
4. Fertilization of Plants
7. Bee pollination increases the yield and quality of fruit, Pchelovodstvo 30 no. 4, 1953.
9. Monthly List of Russian Accessions, Library of Congress, APRIL 1953, Uncl.

TSYGANKOV, S.K., kandidat sel'skokhozyaystvennykh nauk.

Gall gnats as pests of black currant. Ref. nauch. rab. VNIIEOP no.3:
99-102 '55. (MIRA 9:11)

(Currants--Diseases and pests)

TSYGANKOV, S.K. kandidat sel'skokhozyaystvennykh nauk.

Morphological and biological characteristics of the currant clearwing moth (*Synanthedon tipuliformis*). Ref. nauch. rab. VNIIEOP no.3:102-106
'55. (MLRA 9:11.)

(Currants--Diseases and pests)

CHESNOKOV, Pavel Grigor'yevich; TSYGANKOV, S.K., redaktor; POPRYADUKHIN,
K.A., tekhnicheskij redaktor

[Resistance of grain crops to insects] Ustoichivost' zernovykh
kul'tur k nasekomyim. Moskva, Gos. izd-vo "Sovetskaya nauka," 1956.
306 p. (MIRA 10:1)

(Grain--Disease and pest resistance)

P-6

USSR/General and Special Zoology - Insects.

Abs Jour : Ref Zhur - Biol., No 5, 1958, 21133

Author : Tsygankov, S.K.

Inst : "

Title : The Protection of Black Currants Against Dangerous Pests.

Orig Pub : Zashchita rast. ot vredit. i boleznei, 1957, No 3, 46-48

Abstract : No abstract.

Card 1/1

TSYGANKOV, S.K., kand. sel'skokhoz. nauk (Kursk)

Measures for controlling the azalea lace bug. Zashch. rast. ot
vred. i bol. 4 no.2:31-32 Mr-Apr '59. (MIRA 16:5)

(Krasnodar Territory---Fruit---Diseases and pests)
(Krasnodar Territory---Lace Bugs---Extermination)

TSYGANKOV, S.K., kand.sel'skokhoz.nauk

Bud mite Eriophyes ribis Nal. on currants. Zashch. rast. ot vred.
i bol. 6 no.9:38-40. S '61. (MIRA 16:5)
(Currants--Diseases and pests)
(Gall mites--Extermination)

TSYGANKOV, S.P., inzh.

Results of testing ShMAT-1660/1340/730 axial-tangential mills.
Elek. sta. 33 no.6:17-21 Je '62. (MIRA 15:7)
(Electric power plants—Equipment and supplies)
(Milling machinery)

TSYGANKOV, S.P., inzh.; FEDOTOV, D.S., inzh.

Results of testing axially-tangential mills grinding coal from
the Moscow region. Elek. sta. 35 no.11:16-20 N '64.
(MIRA 18:1)

TSYGANKOV, S.P., inzh.

Effect of the diameter of the rotor on the principal indices of hammer
mills. Elek. sta. 36 no.6:21-25 Je '65. (MIRA 18:7)

TSYGANKOV, S.P., inzh.

Firing of Moscow Basin coal in shaft-type impact mill furnaces" equipped with ejector orifices. Elek. sta. 30 no.3:19-23 Mr
'59. (MIRA 12:5)

(Boilers)

TSYGANKOV, S.P., inzh.

Investigation pulverized of a coal system with a ball mill operating on low-grade coal with additional sieving of the returned portion. Elek. sta. 31 no.3:10-17 Mr '60. (MIRA 13:8)
(Coal, Pulverized)

TSYGANKOV, P. S.; MALEZHIK, I. F.

Effect of the concentration of the feeding on the conditions of
a rectification column. Izv. vys. ucheb. zav.; pishch. tekhn. no. 2:
110-113 '64. (MIRA 17:5)

- 1. Kiyevskiy tekhnologicheskii institut pishchevoy promyshlennosti,
kafedra protsessov i apparatov.

TSYONKOV, S.P., inzh.

Results of comparative tests of hammer mills. Flex. sta.
35 no.3-19-25 Mr '64. (MIRA 17:6)

TSYGANKOV, S.P., inzh.

Technical equivalents of power fuels consumed at power plants
of the U.S.S.R. Teploenergetika 6 no.12:63-67 D '59.
(MIRA 13:3)

1. Vsesoyuznyy teplotekhnicheskiy institut.
(Power engineering)

TSYGANKOV, S.P. inzh.

On the performance of a dust separator. Teploenergetika 4 no.12:92
D '57. (MLRA 10:11)

(Coal, Pulverized)

DIREKTOR, B. YA.: LUNIN, V. V.:
TSYGANKOV, B. P.: SHEKLER, B. I., Engrs.

Steam Boilers

Starting a high-pressure uniflow boiler assembly with shaft mills. Elek. sta. 23 no. 8, 1952

Monthly List of Russian Accessions. Library of Congress, November 1952. UNCLASSIFIED

TSYGANKOV, T.M., inzhener

Construction of pile foundations in frozen ground. Elek.sta.26
no.8:46-47 Ag'55. (MLRA 8:12)
(Piling (Engineering))

T. Tsygankov

AID P - 3332

Subject : USSR/Power Engineering
Card 1/1 Pub. 26 - 18/28
Author : Tsygankov, T. M., Eng.
Title : Driving foundation pilings into frozen soil
Periodical : Elek. sta., 8, 46-47, Ag 1955
Abstract : The driving of wooden piles to serve as foundations for transmission line poles in regions with permafrost and short summers is described. Different soils and their properties are described. Preserving the soil in premafrost state is recommended. Five diagrams.
Institution : None
Submitted : No date

TSYGANKOV, T.M., inzhener.

Simplified method of installing and aligning the legs (branches)
of supports. Elek. sta. 26 no. 1:49 Ja '55. (MLRA 8:3)
(Electric lines--Overhead)

TSYGANKOV, TS.I., inzh., red.; SHERSTNEV, A.V., inzh., red.;
STRASHNYKH, V.P., red. izd-va; KASIMOV, D.Ya., tekhn. red.

[Standards SN 220-62 for the technical design of enterprises producing precast reinforced concrete elements in multiple molds] Normy tekhnologicheskogo proektirovaniia predpriatii sbornykh zhelezobetonnykh izdelii s kassetnym sposobom proizvodstva (SN 220-62). Moskva, Gosstroizdat, 1962. 14 p.
(MIRA 16:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva.

(Concrete plants--Standards)

TSYGANKOV, V.

Special problems in flying over the Caucasian Range. Grazhd.av.
13 no.9:10 S '56. (MLRA 9:11)
(Transcaucasia--Meteorology in aeronautics)
(Airplanes--Piloting)

TSYGANKOV, V.

Increasing production and consumption of footwear in the
Chinese People's Republic. Kozh.-obuv.prom. no.10:36-37
0 '59. (MIRA 13:2)
(China--Shoe industry)

TSYGANKOV, V.

Gummenik's cutter-loader at the "Polysaevskaya-2" mine. Mast.
ugl. 5 no.10:9-10 0 '56. (MLRA 9:12)

1. Zamestitel' upravlyayushchego treestom Leninugol' kombinat
Kuzbassugol'.
(Kuznetsk Basin--Coal mining machinery)

TSYGANKOV, V.

Unused potentialities should be put to action. Mast ugl. 4
no.4:9-10 Ap '55. (MLRA 8:6)

1. Zamestitel' upravlyayushchego trestom Leninugol' kombinata
Kuzbasugol'. (Leninsk Kuznetskiy--Coal mines and mining)

CHERNORUTSKIY, G.S., kand. tekhn. nauk; TSYGANKOV, V.A., inzh.; SIBRIN, A.P.,
inzh.; KUZNETSOV, I.M., inzh.; GAFIYATULLIN, R.Kh., inzh.

Automatic control system of regulating the speed of rotation
of the working element of the SEMK-5 boring machine. Izv.
vys. ucheb. zav.; gor. zhur. 6 no.10:27-32 '63. (MIRA 17:2)

1. Chelyabinskiy politekhnicheskii institut (for Chernorutskiy,
TSygankov, Sibrin). 2. RIOGR (for Kuznetsov). 3. Sverdlovskiy
gornyy institut imeni Vakhrusheva (for Gafiyatullin).

USSR / Microbiology. Antibiosis and Symbiosis.
Antibiotics.

F

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19485

Author : Tsyganov, V. A.
Inst : Leningrad Chem.-Pharmaceutical Institute
Title : Concerning the Antibiotic Activity of
Extracts from the Fungus Fusarium species

Orig Pub : Sb. nauchn. tr. Leningr. khim.-farmatsevt.
in-t, 1957, 3, 20-25

Abstract : The formation of antibiotic substances was
studied in 18 cultures of Fusarium. In the
majority of the cultures, the antibiotic
is contained in the mycelium, from which it
was extracted by organic solvents. The
mycelium extract of Fusarium sp. No. F-10
proved to be the most effective (the morphology

Card 1/3

15

USSR / Microbiology. Antibiosis and Symbiosis.
Antibiotics.

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19485

of the culture is described). The most favorable conditions for development, pigment-formation and accumulation of the antibiotic at 20-24° are in a medium, containing 20 g of glucose, 1 g of NaNO₃, 0.5 g of MgSO₄, 0.5 g of KH₂PO₄, 0.02 g of FeSO₄; potato decoction, 1 : 10 - 1 l; pH, 3.69-4.16. The antibiotic is extracted by alcohol, acetone and chloroform; aqueous extracts are, as a rule, inactive. The extracts were distilled in vacuo. At a low temperature, an amorphous residue of a dark-red color remained after distillation, insoluble in water but soluble in alcohol, chloroform and acetone. The antibiotic is highly effective in relation to gram-positive

Card 2/3

USSR / Microbiology. Antibiosis and Symbiosis.
Antibiotics.

F

Abs Jour : Ref Zhur - Biologiya, No 5, 1959, No. 19485

bacteria and Candida albicans; is not toxic
for mice in intra-abdominal administration. --
M. I. Nakhimovskaya

Card 3/3

16

TSYGANKOV, V.I., kand.tekhn.nauk

Use of the laws of conversion of a fractional linear function in
the study of the properties of four-terminal networks. Trudy OM^{TT}
42:23-34 '63. (MIRA 18:10)

TSYGANKOV, V.I.

Methods for determining the parameters of track circuits using
relief maps of hyperbolic functions. Trudy OMIIT 36:5-16 '62.
(MIRA 17:4)

TSYGANKOV, V.I.

Achievements of the textile workers of fraternal China. Tekst.
prom. 19 no. 6:79. Je 1959. (MIRA 12:9)

1. Sotrudnik Instituta Kitayevedeniya.
(China--Textile industry)

TSYGANKOV, V.I., assistant

Deficiencies of circuits for the measurement of time parameters of relays. Avtom., telen. i sviaz' 3 no.2:25-26 F '59.

(MIRA 12:4)

1. Tomskiy elektromekhanicheskiy institut inzhenerov zheleznodoro-
rozhnogo transporta.

(Electric relays--Measurement)

TSYGANKOV, V.N.

Sugar manufacture in the Chinese People's Republic. Sakh. prom.
33 no.11:72-74 N '59 (MIRA 13:3)

1. Institut kitayevedeniya AN SSSR.
(China--Sugar manufacture)

TSYGANKOV, V. N., JT. AU.

Computations for boiler assemblies in examples and problems Moskva, Gos. energ. izd-vo,
1951. 239 p. (54-22803)

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ASSOCIATE, INC.

Card 1/2

SLIMMILITATION

NO RESERVE

Page 2/2

TIME: Pro Union of glad and former living.

SEVEN: Hall, no. 10, 1944, 1949

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Card 2/2

TSYGANKOV, Ye.M., kand. tekhn. nauk; PERFIL'YEV, L.A., inzh.

New developments in research. Stal' 24 no.11:1051 H '64.
(MIRA 18:1)

TSygankov, Ye.M., kand. tekhn. nauk; PEREL'YEV, L.A., inzh.

New developments in research. Stal' 24 no.11:1055 N '64. (MIRA 18:1)

TSYGANKOV, Ye.M., kand. tekhn. nauk; PERFIL'YEV, I.A., inzh.

New developments in research. Stal' 24 no.12:1134 D '64.

New developments in research. Ibid.:1129

New developments in research. Ibid.:1099

(MIRA 18:2)

Card 1/2

SUBMITTED: 00

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SUB CODE: MM

Card 2 / 2

TSYGANKOV, Ye. M., Cand Tech Sci--(dies) "Experimental study of the process
of molding and welding of pipes in ^{furnace} ~~the oven~~-welding mills." Mos, 1958.
13 pp (Min of Higher Education USSR. Mos Order of Labor Red Banner Inst
im I.V.Stalin), 120 copies (KL, 30-58, 129)

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18.5000

75583
SOV/130-59-10-15/20

AUTHORS: Tsygankov, Ye. M. (Chief Engineer), Garkusha, M. S.
(Senior Engineer of Furnace Laboratory)

TITLE: Improvement of Heating Furnace for Mobile Pipewelding
Stand

PERIODICAL: Metallurg, 1959, Nr 10, p 29 (USSR)

ABSTRACT: As a result of research (conducted by Titov, N. A.,
Timofeichev, P. V., Zimin, Ya. S., Petrov, K. I.,
Rachkov, G. A., Golyshkov, M. S., and Vladimirov,
L. M.) at Vyksa Metallurgical Plant (Vyksunskiy metal-
lurgicheskiy zavod) satisfactory seams were obtained with
welding-moment temperatures of 1370°C, i.e. melting
temperature of ferrous oxide. The welding furnace was
redesigned: (1) hearth width increased to 3000 mm;
(2) eleven vertical 550 x 300 mm flues installed; (3)
exhaust flues widened to 550 mm, facilitating gas
escape and eliminating scale formation; (4) sagging
of hearth beam prevented by installation of brick

Card 1/2

Improvement of Heating Furnace for
Mobile Pipewelding Stand

75583
SOV/130-59-10-15/20

supports in furnace center; (5) horizontal flues connected with vertical flues and spaced at 300 mm, arranged along the entire length of the furnace for better withdrawal of coldest gas. Advantages: (1) increased production; (2) decreased percentage of rejects; (3) fuel and metal saving. Future plans: fuller utilization of hearth width, increasing length of hearth and length of heated strip. There is 1 table.

ASSOCIATION: Vyksa Metallurgical Plant (Vyksunskiy metallurgicheskiy zavod)

Card 2/2

AUTHORS: Tsygankov, Ye. M. and Ratnikov, M. F. 133-58-4-10/40

TITLE: Stability of Unfired Magnesite-Chromite Bricks in Roofs of Open Hearth Furnaces (Stoykost' bezobzhigovogo magnazitokhromitovogo kirpicha v svodakh martenovskikh pechey)

PERIODICAL: Stal', 1958, Nr 4, pp 317-319 (USSR)

ABSTRACT: For the last two years open hearth roofs in the Vyksa Works were made either completely or partly from unfired magnesite-chromite bricks. Some data on the stability of roofs on the works is given in Table 1. The external appearance of unfired bricks after 581 and 623 heats is shown in Fig.1. Chemical composition of fired and unfired bricks from various zones of the roof after 380 heats - Tables 2 and 3. On the basis of the operational results the following conclusions are drawn: the stability of unfired magnesite-chromite bricks in roofs of 60 and 180 ton open hearth furnaces is 15 to 20% lower than that of fired bricks. In mixed roofs made from fired bricks at the front and back walls and unfired bricks in the middle part of the roof, their stability increases and stresses in roofs decrease due to the

Card 1/2

133-58-4-10/40
Stability of Unfired Magnesite-Chromite Bricks in Roofs of Open
Hearth Furnaces

shrinkage of unfired bricks and the expansion of fired
bricks on heating the furnace. In view of the
comparatively low cost of unfired bricks, wider tests
of their application in roofs of open hearth furnaces
of various capacities should be made.
There are 3 tables and 5 figures.

ASSOCIATION: Vyksunskiy metallurgicheskiy zavod
(vyksa Metallurgical Works)

1. Refractory materials--Stability 2. Open hearth furnaces
--Materials

Card 2/2

TSYGANKOV, Ye.M., inzhener.

Effect of the shape of strip edges on the strength of welded pipe joints.
(MLRA 10:9)
Stal' 17 no.8:728-730 Ag '57.

L. Vyksunskiy metallurgicheskiy zavod.
(Rolling (Metalwork)) (Pipe, Steel--Welding)

TSYGANKOVA, A.D.
PARFENOVA, A.I.; SITNIKOVA, L.V.; TSYGANKOVA, A.D.; KARAKISHISHEVA, T.I.

Combined method for obtaining aureomycin and vitamin B₁₂. Med.
prom. 11 no.8:10-12 Ag '57. (MIRA 10:11)

1. Moskovskiy zavod meditsinskikh preparatov No.1.
(AUREOMYCIN) (VITAMINS - B)

EPSHTEYN, D.I.; TSYGANKOVA, A.M.; SARAYEV, Yu.D.

Establishment of norms for machine-tool operations based on consolidated norms reduced to a single line. Mashinostroitel' no.11:
37-39 N '61. (MIRA 14:11)

(Factory management)

KOVALENKO, Vladimir Ivanovich; SKOROKHODOV, Mikhail Arkad'yevich;
TSYGANKOVA, D., red.; YAKOVLEVA, Ye., tekhn. red.

[Birth of the new] Rozhdenie novogo. Moskva, Mosk. rabochii,
1961. 141 p. (MIRA 15:3)
(Moscow region--Agricultural workers)

ZUYEV, V.P.; GILYAZETDINOV, L.P.; GYUL'MISARYAN, T.G.; SAFRONOV, N.Ya.;
BERNSHTEYN, I.D.; GLAGOLEV, V.I.; TSYGANKOVA, E.I.; SOKOLOVA, V.V.;
BYSTROV, K.M.; KHOKHLOV, B.P.

Some characteristics of the production of PM 70 carbon black in
cyclone reactors with the use of thermogas oil. Kauch. i rez. 24
no.6:19-24 Je '65. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti i
Novo-Yaroslavskiy sazhevyi zavod.

ACCESSION NR: AP5016635
9.5-11.8 x 10⁻² m²/sec.

The viscosity of the 1:1 mixture varies from 3.6 to 3.9 x 10⁻² m²/sec. The kinematic viscosity plotted against heating temperature shows that the green oil and gas oil have the same viscosity only at a temperature of 280-300C. The viscosity of the green oil mixture at 140C. Pure gas oil has only at 100C. The viscosity of the green oil mixture at 140C. Pure gas oil has this viscosity and for gas oil make it necessary to preheat it by 80-100C higher than the green oil at minimum 160C before its introduction into the reactor. The average diameter of the droplet of raw material is plotted against the vaporizing air flow rate and the temperature before the atomizer. With an increase in the air flow rate and the specific flow rate of vaporizing air were decreased 2.0-2.2 times. During the experiments the diameter of the droplet varied. The other technological parameters were almost constant (total specific air flow rate of 4.8-5.1 m³/kg, gas flow rate of 0.25-0.28 m³/kg of raw material, reactor temperature of 1395-1400C). Tabulated data show that by increasing the air flow rate and temperature the specific surface and the oil content of carbon black were increased, while the optical density of the benzene extract of carbon black decreased. The technological data and properties of carbon black PH-70

Cord 2/3

bon.
black
crease in
content of
recommended to
oil to green oil
ASA 1 drums. Orig.

ASSOCIATION: Nauchno-issl.
Research Institute for
(Novo-izv.) Carbon Black PH-70

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OTHER:

NO REF SOV: 005

Cord 3/3 SP

TSYGANKOVA, G.,
A. KIZEL, CR 24. 786-90, (1939)

~~Univ. Chem.~~ 444 10-11 at room temp. ✓

Tsygankova, G.A.

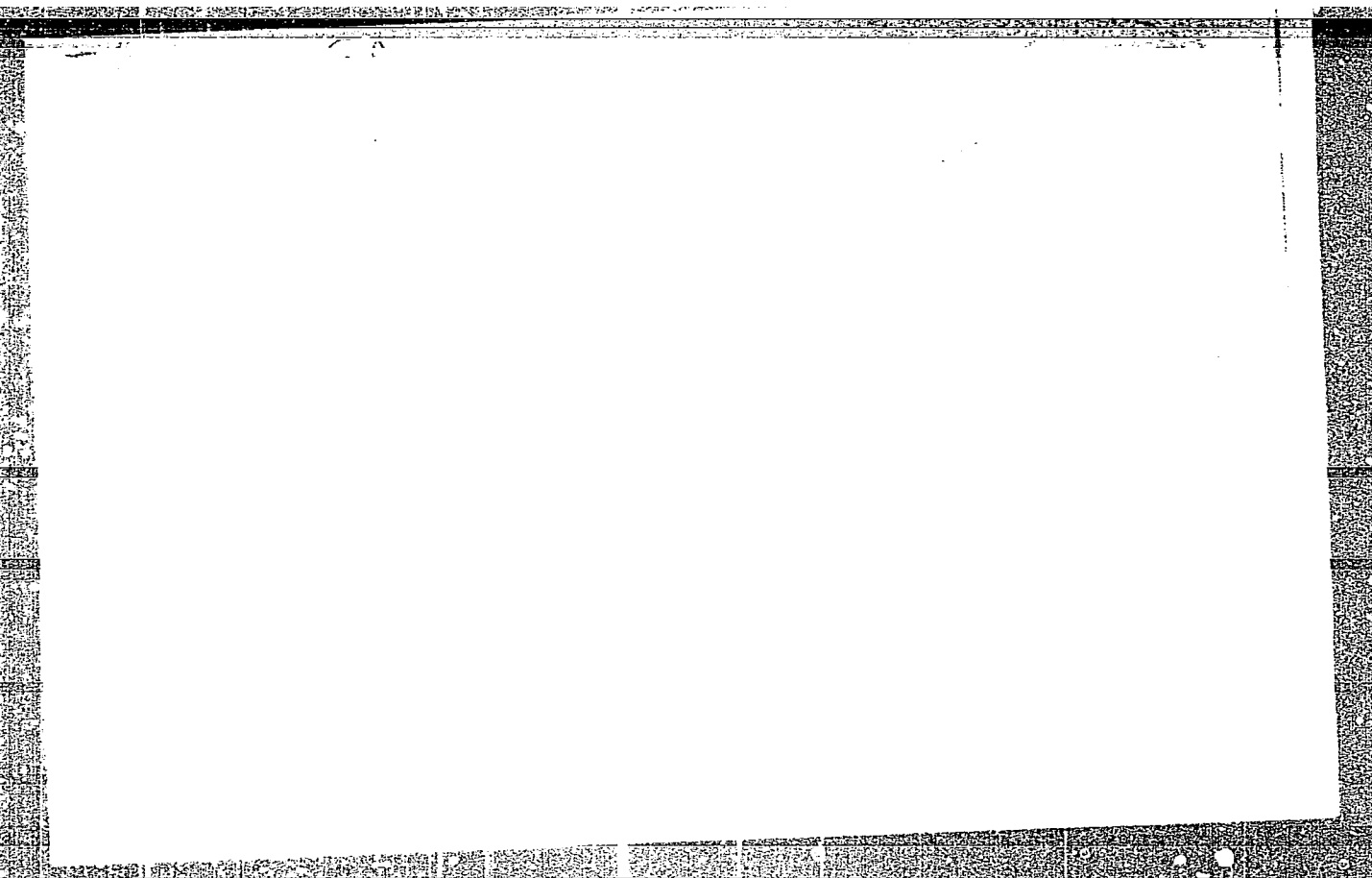
KORENMAN, I.M.; FRUM, F.S.; TSYGANKOVA, G.A.

Solubility product of beryllium hydroxide. Zhur.ob.khim. 26 no.6:
1558-1560 Je '56. (MIRA 11:1)

1.Gor'kovskiy Gosudarstvennyy universitet.
(Beryllium hydroxides) (Solubility)

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LOGVINOVICH, E.G.; BRIKER, F.Yu.; DEGTEVA, S.F.; TSYGANKOVA, G.I.

Operational and economic efficiency of heavy-tonnage tankers.
Trudy TSNIIMF 54:39-53 '64 (MIRA 18:1)

DUBOVYY, Ye.D., prof.; KAL'FA, S.F., prof.; VOLOSHINA, L.F.; TSYGANKOVA, G.M.;
DONDUA, I.G.

Treating various inflammatory diseases of the anterior chamber of the
eye with radioactive phosphorus. Vest.oft. 72 no.5:37-43 S-O '59.
(MIRA 13:3)

1. Kafedra glaznykh bolezney (zaveduyushchiy - prof. S.F. Kal'fa) i
kafedra rentgenologii i radiologii (zaveduyushchiy - prof. Ye.D.
Dubovyy) Odesskogo meditsinskogo instituta imeni N.I. Pirogova.
(EYE DISEASES, ther.)
(PHOSPHORUS, radioactive)

TSYGANKOVA, I.I.

Category : USSR/Electronics - Gas Discharge and Gas-discharge Instruments H-7

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 4312

Author : Vasil'eva, M.Ya., Tsygankova, I.I.

Title : Effect of Small Nitrogen and Oxygen Impurities on the Current of a Non-Self-Sustaining Discharge and Determination of the Percentage Nitrogen Content in Argon.

Orig Pub : Vestn. Mosk. un-ta, 1955, No 12, 81-86

Abstract : An experimental investigation is made of the problem of the qualitative independence of the slope of the voltage-current characteristics of the non-self-sustained discharge current in argon on the presence of oxygen and nitrogen impurities in the argon. The investigations were carried out at argon pressures of 3 mm mercury. The voltage-current characteristics were plotted for the following impurity concentrations: 10^{-3} , 10^{-2} , 1, and 2%. A sharply pronounced reduction in current is obtained with impurities from $10^{-2}\%$ and above. The reduction in current is caused by the disturbance of the metastable atoms of argon upon collision with the impurity molecules. It is proposed to use the described phenomenon for the determination of the percentage content of nitrogen in argon for concentrations from 1×10^{-3} to 2%.

Card : 1/1

SHATALOV, A.Ya.; TSYGANKOVA, L.Ye.; UGAY, Ya.A.

Anodic oxidation and the corrosion resistance of indium-antimony alloys. Zashch. met. 1 no.2:233-235 Mr-Apr '65. (MIRA 18:6)

1. Voronezhskiy gosudarstvennyy universitet.

L 2621-66 ENT(m)/EPF(c)/EWP(t)/EWP(b) IJP(c) JD/WB
 ACCESSION NR: AP5011367 UR/0365/65/001/002/0233/0235
 620.193.01

AUTHOR: Shatalov, A. Ya.; Tsygankova, L. Ye.; Ugay, Ya. A.

TITLE: Anodic oxidation and corrosion resistance of indium-antimony alloys

SOURCE: Zashchita metallov, v. 1, no. 2, 1965, 233-235

TOPIC TAGS: anodic oxidation, corrosion resistance, corrosion resistant alloy, antimony alloy, indium containing alloy

ABSTRACT: Anodic oxidation and corrosion resistance of indium-antimony alloys (0-100% Sb) was studied electrochemically. The intermetallic InSb compound was prepared by means of partial melting of n- and p-type single crystals with current carrier concentrations of 3.5×10^{14} and 2.0×10^{18} , respectively. The corrosion resistance experiments were carried out in 1-normal H_2SO_4 and in hydrogen atmosphere for 4 days. The anodic oxidation process was studied in solutions with pH = 0-14 at current densities of 0.01-1 mA/cm² using InSb single crystals. The stationary potentials and rate of corrosion of In-Sb alloys in 1-normal H_2SO_4 solution are shown in fig. 1 of the Enclosure. The maximum anodizing rate and the formation of

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L 2621-66

ACCESSION NR: AP5011367

a tight oxide layer on the anode coincides with an intermetallic InSb compound containing 51.5% Sb. The dependence of the rate of anodic oxidation (I) and of $\frac{d}{dt}$ (1/C) (II) in 0.1n Na₂B₄O₇ solution upon alloy composition is shown in fig. 2

of the Enclosure. The composition of the oxide layer formed on the anode containing 51.5% Sb corresponds to formula: (In₂O₃)₇·(Sb₂O₃). The anodizing process is found to be independent of the type of conductivity of the anode material. Orig. art. has: 1 table, 2 figures, 1 formula.

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University)

SUBMITTED: 03Sep64

ENCL: 02

SUB CODE: MM, GC

NO REF SOV: 004

OTHER: 001

Card 2/4

L 2621-66

ACCESSION NR: AP5011367

ENCLOSURE: 01

K, $\frac{g}{cm^2 \cdot hr}$

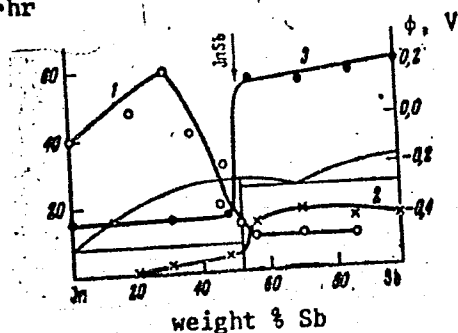


Fig. 1. 1--rate of corrosion based on indium; 2--rate of corrosion based on antimony and 3--stationary potentials in reference to a normal hydrogen electrode.

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L 2621-66

ACCESSION NR: AP5011367

ENCLOSURE: 02

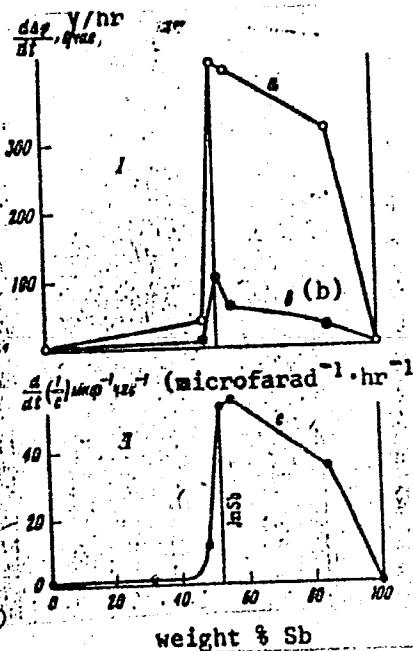


Fig. 2. a and c--0.5 mA/cm²;
b--0.1 mA/cm².

Card 4/4 DP

E 3784-66 EWT(m)/EPF(c)/ENP(t)/ENP(b) IJP(c) JD/WB
 UR/0365/65/001/003/0340/0342 44
 ACCESSION NR: AP5014140 546.3-19'48'86
 620.193' 41
 03

AUTHOR: Shatalov, A. Ya.; Tsygankova, L. Ye.; Ugay, Ya. A. 44,55
 44,55
 TITLE: Anodic oxidation and corrosion resistance of cadmium-antimony alloys
 44,55 16 27 27
 SOURCE: Zashchita metallov, v. 1, no. 3, 1965, 340-342

TOPIC TAGS: cadmium alloy, antimony alloy, corrosion resistance, anodic oxidation

ABSTRACT: The authors study the behavior of cadmium-antimony alloys during anodic oxidation in silutions of various composition. The corrosion resistance of this system was studied in detail in a previous paper (Zh. fiz. khimii, 1964, 38, 1501). The rate of anodic oxidation for this system is experimentally plotted as a function of alloy composition in buffer solutions with various pH values. The solutions are mixtures of 0.1N $\text{Na}_2\text{B}_4\text{O}_7$ and 0.1N NaOH taken in definite proportions. A direct relationship is found between oxidation rate and corrosion resistance in these alloys. In the Sb-content range from 52 to 92 wt. % the rate of anodic oxidation

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L 3784-66

ACCESSION NR: AP5014140

reaches a maximum with a simultaneous sharp reduction in the self-dissolution of these alloys which takes place when the limit of corrosion resistance is passed. This region is reflected on the phase diagram by the stable intermetallic compound CdSb and a heterophase alloy with an excess of antimony. Since the corrosion resistance of antimony-rich Cd-Sb alloys is highest, it is concluded that the capacity for anodic oxidation is directly connected with the protective properties of the oxide film which is formed, and consequently this capacity is determined by the structure of the film and by the composition of the solution in which the process takes place. The alloys have the capacity for anodic oxidation only in those pH regions where the oxide film is stable. Orig. art. has: 2 figures.

ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State University)

SUBMITTED: 01Oct64

ENCL: 00

SUB CODE: MM

NO REF SOV: 005

OTHER: 000

PC
Card 2/2

"APPROVED FOR RELEASE: 08/31/2001

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CIA-RDP86-00513R001757310012-4

APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001757310012-4"

SHATALOV, A.Ya.; TSYGANKOVA, L.Ye.; UGAY, Ya.A.

Anodic oxidation of some intermetallie compounds. Elektrokhiimiya
1 no.9:1118-1123 S '65. (MIRA 18:10)

1. Voronezhskiy gosudarstvennyy universitet.

TSYGANKOVA, O. I.

Formulas for calculating discriminants of Jacobi, Laguerre,
and Hermitian polynomials. Izv. vys. ucheb. zav.; mat. no.4:
170-172 '62. (MIRA 15:10)

1. Permskiy gosudarstvennyy universitet imeni A. M. Gor'kogo.
(Polynomials)

T SYGANKOVA, I. S.

USSR/Chemical Technology - Chemical Products and Their Application. Silicates.
Glass. Ceramics. Binders, I-9

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 62380

Author: Vaganov, A. I., Staritskiy, P. G., Tsygankova, T. S.

Institution: None

Title: Acceleration of the Setting of Ship-Building Concrete by the Use
of Water Absorbing Molds and Additives

Original

Periodical: Tr. Tsentr. n.-i. in-ta rech. flota, 1956, No 32, 3-15

Abstract: Concrete (C) with added 0.2% sulfite-alcohol liquor (SAL) and 2% CaCl_2 on setting in water absorbing molds (WM) made of cardboard acquires after 3 days a strength equal to 70% of that reached after 28 days. Use of WM without additives although it raises the strength of C after any length of time by 28-32% does not produce after 3 days a strength equal to 70% of that of specification value. Use of WM in combination with SAL and CaCl_2 enhances adhesion to reinforcements and increases impermeability of C. Use of the 3-day-old C has no detrimental effect on its ultimate strength.

Card 1/1

VASIL'YEVA, M.Ya.; TSYGANKOVA, I.I.

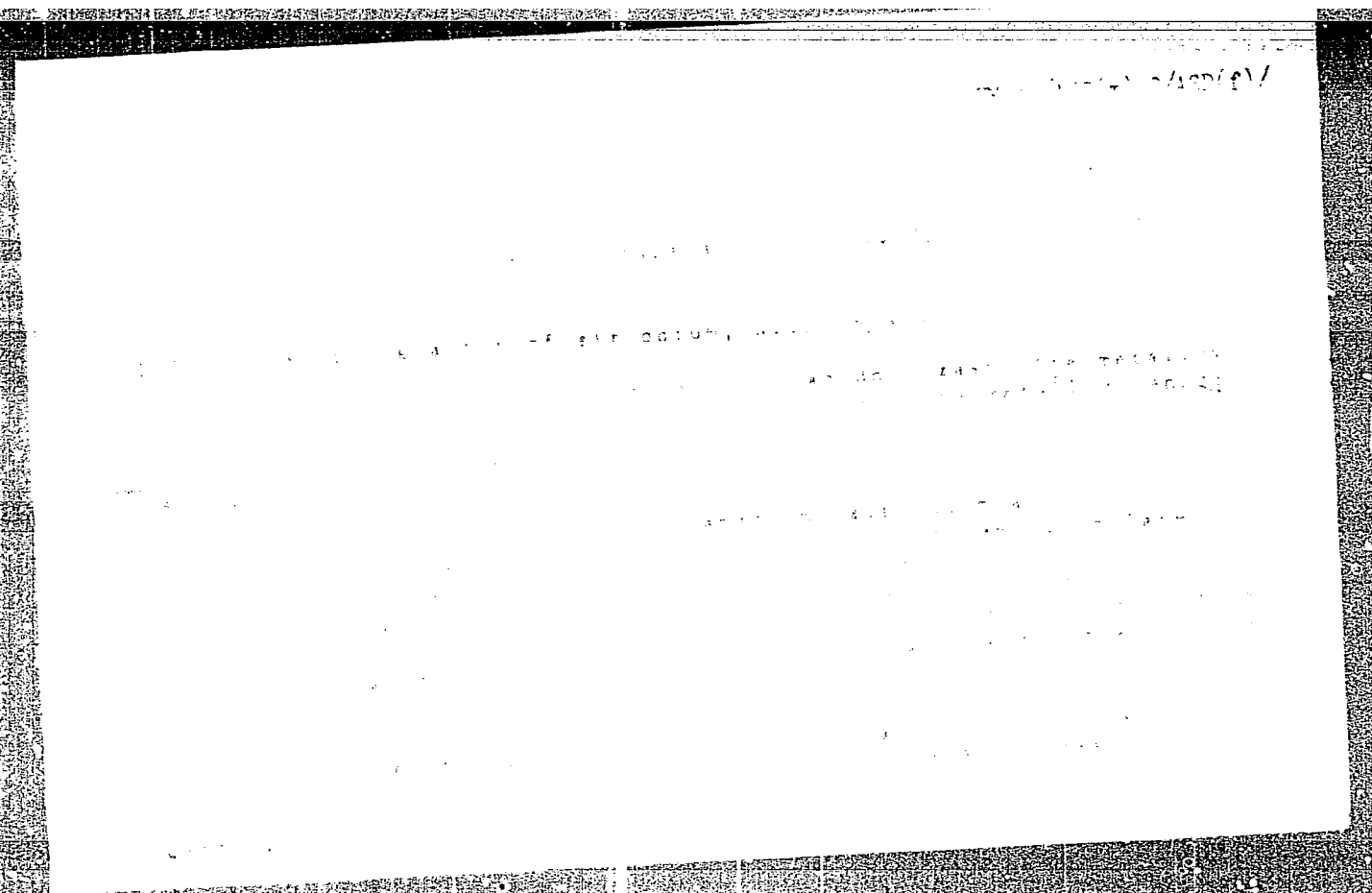
Effect of nitrogen and oxygen trace admixtures on the independent discharge current strength and the per cent determinations of the nitrogen content in argon. Vest.Mosk. un.10 no.12:81-86 D '55. (MLRA 9:5)

1. Kafedra elektroniki.
(Electric discharges through gases) (Argon)

SHATALOV, A.Ya.; BONDAREVA, T.P.; TSYGANKOVA, L.Ye.

Anodic oxidation of vanadium and niobium. Izv.vys.ucheb.zav.;khim.i
khim.tekh. 6 no.4:631-636 '63. (MIRA 17:2)

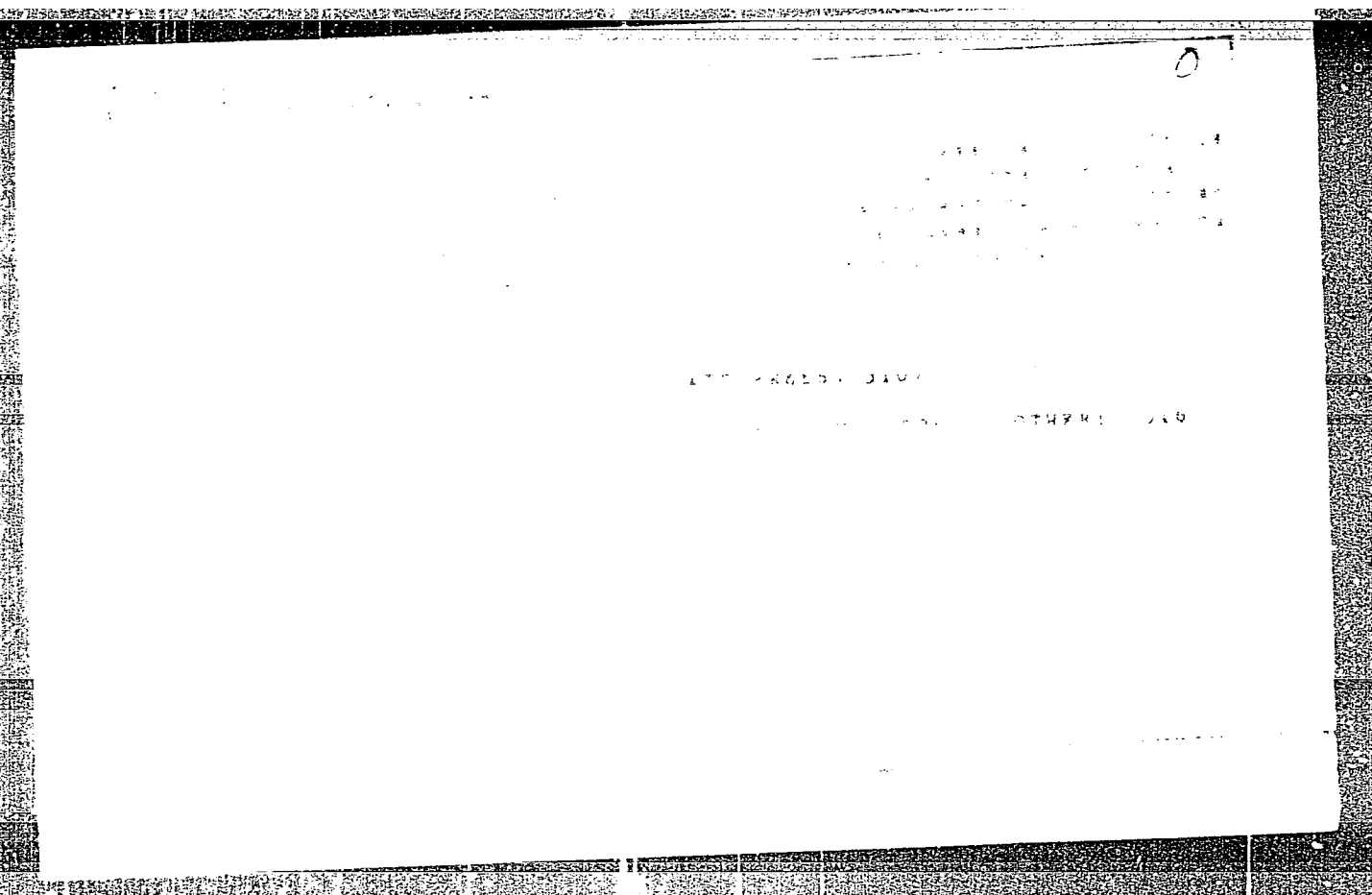
1. Voronezhskiy gosudarstvennyy universitet. Kafedra fizicheskoy khimii.



100-100

ACCESSION NR: AT4041088

Experiments carried out with 99.996% pure zirconium.



ARMILLOV, G.Ye.; LBYGANHOVA, L.Ye.; LOMY, Ya.A.

Electrochemical behavior and corrosion resistance of the alloys
of cadmium and zinc with antimony in sulfuric acid. Zhur. fiz.
khem. 33 no.6:1501-1508 Je '64. (JIB 12:3)

1. Voronezhskiy gosudarstvennyy universitet.

L 12680-63

ACCESSION NR: AP3000648

EWP(q)/EWI(m)/BDS AFFTC/ASD JD/JG

S/0080/63/036/003/0588/0594

AUTHOR: Shatalov, A. Ya.; Bondareva, T. F.; Tsygankova, L. Ye.

56

TITLE: Electrochemical research on the passivation of niobium and vanadium

SOURCE: Zhurnal prikladnoy khimii, v. 36, no. 3, 1963, 588-594

TOPIC TAGS: passivation, anodizing oxides, polarization, repassivation, niobium, vanadium

ABSTRACT: The behavior of the electrode potentials of niobium and vanadium during anodic polarization in acid and caustic solutions was investigated. The potential of Nb, with constant current density, increased with time of polarization and reached a voltage of several tenths of a hundred. In the beginning sections of the polarization curves, there is a proportionality between the potential reached and the quantity of electricity, independent of the current strength applied to the electrode. The potentials of the Nb anode in hydrochloric, nitric, sulfuric, phosphoric acid solutions cannot be reduced to one but to the ohmic drop in voltage as a result of the anodizing layer of oxide. The electrode potentials of the V anode on the part of the polarization curve where ionization occurs, depend on current strength but not on the composition of the solution. Polarization tends toward negative values in proportion to the increase in the pH of the solution. Vanadium

Card 1/2

L 12580-53

ACCESSION NR: AP3000648

is most easily passivated in moderately caustic solutions, with the formation of an insulating layer of vanadites. With higher potentials of over 0.6 v, repassivation occurs in caustic media, which is explained by the formation of vanadate ions. Orig. art. has: 3 tables, 6 figures.

ASSOCIATION: none

SUBMITTED: 24Oct61

DATE ACQ: 12Jun63

ENCL: 00

SUB CODE: CH

NO REF SOV: 001

OTHER: 010

Card 2/2

LIST AND INDEX ORDERS																										PROCESSES AND PROPERTIES INDEX																																																					
Obtaining butyl butyrate from butanol by catalytic esterification without acid. P. Ya. Ivannikov, M. Tsyganova and R. Ya. Gavrilova. <i>Org. Chem. Ind. (U.S.S.R.)</i> 5, 61-4 (1938); cf. C. A. 30, 7680; 31, 6102. A condensate contg. 72% PrCO_2Bu and pure II were obtained by passing BuOH over 100 g. of the Cu^{II} catalyst at 280-40° and a velocity of 30 cc./hr. The catalyst was previously used continuously for 9 hrs. in the esterification of EtOH at 240°. It showed no signs of deactivation after use for a month. Chas. Blanc																																																																															
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TSYGANKOVA, N.Ya.; KADUSHINA, V.A.

Using phenolic resins for the manufacture of models and dies.
Plast.massy no.3:49-51 '60. (MIRA 13:6)
(Phenol condensation products) (Plastics)

TSYGANKOVA, N, Ya.

TSYGANKOVA, N. Ya. -- "The Effect of Various Factors and Conditions of the Condensation of Phenol with Aqueous Solutions of Formaldehyde on the Properties of the Tars Obtained." Min Culture USSR. Moscow Order of Lenin Chemicotechnological Institute imeni D. I. Mendeleev. Moscow, 1954 (Dissertation for the Degree of Candidate in Technical Sciences.)

So; Knizhaya Letopis' No 3, 1956

S/191/60/C00/C09/010/010
B013/B055

AUTHOR: Tsygankova, N. Ya.
TITLE: Improvement of the Quality of Polyvinyl Chloride
PERIODICAL: Plasticheskiye massy, 1960, No. 9, p. 79

TEXT: The author gives a report on the meeting of the sektsiya vysokopolimerov Nauchno-tekhnicheskogo soveta Gosudarstvennogo komiteta Soveta Ministrov SSSR po khimii (Section of High Polymers of the Scientific Council of the State Committee for Chemistry of the Council of Ministers USSR) held on June 3 of this year under the chairmanship of Academician V. A. Kargin. Deputies from sovnarkhoz and plants assisted in the work done by the Section. The meeting was concerned with the choice of optimum preparation methods for polyvinyl chloride and the improvement of its technical properties. B. A. Krentsel' discussed the present state of polyvinyl-chloride production, the application of plasticizers and fillers, ways of improving Soviet polyvinyl chloride, and the necessity of industrial production of plasticizers. He suggested the preparation of a new ГОСТ (GOST) with higher indices for polyvinyl chloride. A.S. Shevlyakov

Card 1/2

Improvement of the Quality of Polyvinyl
Chloride

S/191/60/000/009/010/010
B013/B055

compared the three production methods of polyvinyl chloride, block, emulsion, and suspension polymerization, and described them as being equivalent from the economical point of view. G. V. Struminskiy compared the characteristics of various polyvinyl-chloride types produced by foreign firms. It was stated in the resolution adopted by the Section that polyvinyl chloride is one of the most-produced plastics, and that its production in the USSR increases from year to year. In the USSR, polyvinyl chloride is mainly produced by the suspension method. Toward the end of the Seven-year Plan, 30% of the total production will be by the latex method. The necessity of improving the quality of polyvinyl chloride is stressed. It is intended to prepare a new GOST and to publish recommendations for the application of new emulsifiers and plasticizers in 1960. Drafts for the new production method of polyvinyl chloride are to include measures vouchsafing resin preparation in accordance with the new GOST. The scientific research program is to be supplemented by work in the field of vinyl-chloride production from ethylene and vinyl fluoride. ✓

Card 2/2

SOSINA, S.M.; PASHKOVSKAYA, M.T.; Prinimali uchastiye: SUPRANOVICH, V.A.,
mladshiy nauch. sotrudnik; NOVIK, V.G., mladshiy nauch. sotrudnik;
TSYGANKOVA, R.I., tekhnik-tekhnolog

Methods for the disinfection of mcllasses for the production of baker's
yeast. Trudy BNIIPPT no.4:113-126 '61. (MIRA 17:10)

TSYGANKOVA, S.T., kand.biol. nauk; FRANTSEV, V.I., kand.med.nauk;
KIRICHENKO, M.N.

Hemopoietic characteristics in patients with Fallot's tetralogy.
Ter. arkh. 35 no. 4:74-79 Ap '63. (MIRA 17:1)

1. Iz klinicheskoy laboratorii (zav. I.I.Yevnina) i khirur-
gicheskogo otdeleniya (zav. v.I.Frantsev) Instituta eksperi-
mental'noy biologii i meditsiny (dir. - prof. Ye. N.Meshalkin)
Sibirskogo otdeleniya AN SSSR.

TSYGANKOVA, S. T. Cand Biol Sci -- "Processes of regeneration in the bone marrow,
and peripheral blood after acute hemorrhage and ^{after administration} ~~introduction~~ of a blood-substitute,
liquid into the organism (Experimental study)." Mos, 1960 (Min of Higher and
Secondary Specialized Education RSFSR. Mos Technological Inst of Meat and Dairy
Industry). (KL, 1-61, 189)

-147-

TSYGANKOVA, T. M., KAL'FA, S. F. (Prof.), DUBOVOY, E. D. (Prof.) and VOLOSHINA, L. F.

"The Application of Radiophosphorus in the Treatment of Certain Diseases of the Eye", a report presented at the Scientific Conference Devoted to the Application of Radioactive Substances in Medicine, Odessa Medical Institute, December 1954, Arkhiv, Patol., No. 2, 1956

TSYGANKOVA, S.T.

Restoration of the peripheral blood of rabbits three to four
months old following acute blood loss. Uch.zap. 2-go MGMI 16:
104-108 '58. (MIRA 13:6)

(HEMORRHAGE)